

SOLARCABLE

DATASHEET



- E-beam cross-linked compounds
- High UV, ozone, and hydrolysis resistance
- Heat-resistant, does not melt or flow
- Flexibility under cold conditions
- 25 years expected service life
- Applicable to all common connectors
- Underground available



TECHNICAL DATA

CONSTRUCTION

Conductor	Soft tinned annealed copper according to IEC 60228, class 5
Insulation	XLPE, flame retardant, halogen free, E-Beam cross-linked compounds
Jacket	XLPE, flame retardant, halogen free, E-Beam cross-linked compounds. UV and ozone resistant, black / white marking
Jacket color	All the chromatographic

Thermal performance

Operation temperature : -40C - + 120°C

Ambient temperature : -40C -+90°C

Maximum short circuit temperature : 250°C

Material characteristics

Fireproof performance: EN 60332-1-2

Smoke emission: EN 61034-1; EN 61034-2

Low fire load : DIN 51900

Approval: TUV EN50618; CPR EN 50575

Applied standard: TUV EN50618

Electrical performance

Rated Voltage: U₀=1,5 kV DC

Test Voltage: 6,5 kV AC 5 Min

Bending radius

Fixed setting: >4 x φ

Moves on occasion: >5 x φ

Application

In a solar power system of rated voltage U₀=1.5KV, PV cables are used to connect between solar panels and inverters.

Article Number	Color	conductor cross-section (mm ²)	N/mm	Insulation Thickness (mm)	Jacket Thickness (mm)	OD. (mm)	Max. mQ/m	Ampacity (A)
1SS1-2.5	B/R	1*2.5	49/0.25	0.85	0.90	55±0.2	8.21	41
1SS1-4.0	B/R	1*4.0	56/0.28	0.70	0.90	5.7±0.2	5.09	55
1SS1-6.0	B/R	1*6.0	84/0.28	0.70	1.05	6.5±0.2	3.39	70
1SS1-10.0	B/R	1*10.0	77/0.4	0.70	0.80	7.2±0.2	1.95	98

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